

**Minutes of 289<sup>th</sup> Meeting**  
**RTCA Special Committee 227**  
**22<sup>nd</sup> Meeting**  
**EUROCAE WG-85**  
**16-19 August 2021**  
**Virtual**

Agenda

Monday

1. Welcome and Administrative Remarks
2. Introduction
3. Review and approve minutes from May 2021 meeting
4. WG-85 Request to make the MOPS (DO-283) a joint activity
5. Review Status of WG-2
6. Review Status of WG-3
7. Review & Determine Response to SC-159 ISRA
8. Disposition Draft MASPS Comments

Tuesday – Thursday

1. Disposition Draft MASPS Comments

Friday

1. Disposition Draft MASPS Comments, if required
2. Review Action Items
3. New Business
4. Adjourn

Chairman: Mike Cramer, MITRE  
 GAR: Barry Miller, FAA  
 Secretary: Dave Nakamura, MITRE  
 Program Director: Rebecca Morrison  
 EUROCAE TPM: Alex Engel  
 WG-85: Okuary Osechas, DLR

Attendees Name	Company/Organization
Aaron Jacobson	Boeing
Adam See	Delta
Alex Capodicasa	CMC
Alex Engel	EUROCAE
Andrew McKenzie	Nav Canada
Andrew Riedel	Boeing
Barry Miller	FAA
Bennie Hutto	NATCA
Tiziano Bernard	Garmin
Bill De Groh	Allied Pilots
Bill Tuccio	Garmin
Bob Gaul	Garmin
Brad Miller	FAA
Brandon Weaver	DLR
Christine Clausnitzer	FAA
Christopher Adams	EUROCONTROL
Collin Ogden	Collins Aerospace
Dale Courtney	FAA
Daniel Nelson	NATS
Darrell Pennington	ALPA
David Jordan	UASC
David Jordan	UASC
David DeSmedt	EUROCONTROL
Dinesh Kushwaha	Collins Aerospace
Doug Phifer	FAA
Doug Willey	ALPA
Ellen McGaughy	Collins Aerospace
Erik Ringnes	Honeywell
Fernando Diaz	ENAIRE
Florian Buchmann	Austro Control
Frank Wigold	Lufthansa Systems
Gang Feng	Boeing
Gary McMullin	Southwest Airlines
Gary Petty	FAA
Gerhard Berz	EUROCONTROL
Grant Clow	PSA Airlines
Greg Comstock	StratMach
Guy Deker	Thales
Jeff Kerr	FAA
Jeff Meyers	FAA
Joel Dickinson	FAA
John Barry	FAA
Kendal Hershberger	Garmin
Kevin Sivits	Leonardo/Selex

Kirk Kolek	Collins Aerospace
Kurt Stiefel	FAA
Lesley Weitz	MITRE
Mike Cramer	MITRE
Mike Jackson	Honeywell
Mitch Narins	FAA
Monica Vafiades	USAF
Dave Nakamura	MITRE
Nico De Gelder	NLR
Nick Tallman	FAA
Okuary Osechas	DLR
Rebecca Morrison	RTCA
Ricardo De Sousa	NATS
Ron Renk	UAL
Russ Ramaker	GE
Ruth Hirt	FAA
Shivathsan Narayanan	DLR
Silviu Ceparu	Bombardier
Stephen Moody	Boeing
Steve Horvath	Garmin
Stuart Bowman	MITRE
Suongbing	
Tim Geels	Collins Aerospace
Tim Padden	USAF
Tom Yochum	Boeing
Toyohachi Yokota	JRANSA
Valeriu Vitan	EUROCONTROL
Victor Gordo	Ineco
WANG Ansi	
Wes Googe	American Airlines
Yee Xiong	UASC
Yinghan Xia	
Yurly Zabanov	Aeropard

## Monday, August 16

Mike reviewed the agenda.

### **Welcome and Administrative Remarks**

Mike Cramer opened the plenary Webex session at 9:00 AM, Monday, August 16th. Mike welcomed the participants and thanked those submitting comments. Alex and Rebecca reviewed both the RTCA and EUROCAE Anti-Trust, Proprietary, and Committee Membership Participation policies. Due to the fact this was a virtual meeting, the typical individual introductions were not made. Members were reminded to note on workspace meeting attendance.

Introduction

### **Review and Approve minutes**

Dave walked through the minutes for the last meeting. They were accepted.

### **WG-85 Request to make the MOPS (DO-283) a joint activity**

This request is a change from the past where the MOPS was just in RTCA, as an RTCA only document. Recent views from WG-85 led to a change in opinion for support and coordination as a joint document. The EUROCAE TAC approved an update to the WG-85 TOR to include the MOPS as a joint document. SC-227's TORs will need to be updated to reflect this changed arrangement. The committee agreed with this change.

### **Review Status of WG-2**

Monthly WG meetings will start in the next month. The MASPS change proposals will be used as a starting point for the MOPS change proposals.

### **Review Status of WG-3**

Andrew reviewed the group leadership, scope ( still in the brainstorm phase) items are in work. The WG expects to finish this initial work in the next meeting or two. Michele Yeh provided information on charting issues during the WG discussions. The WG is on target to finish in 2023. Some of the discussion topics were shown to the committee. The slides will be posted to the workspace. The next meeting is the 25<sup>th</sup> of August. Product demos or overviews are expected to take place at some upcoming meetings e.g. October.

### **Review & Determine Response to SC-159 ISRA**

The SC-159 request is for harmonization of PBN requirements. Proposed activities are for a gap and traceability analysis regarding public route/procedure design including equipment classes, harmonization with point in space helicopter procedures, and potential consequential changes for MOPS. The MASPS and MOPS has little to do with approach criteria specificity unlike what is in SC-159. SC-227 SME validation of the SC-159 changes is needed considering potential PBN application disconnects in SC-159 e.g. Appendix Q. The committee schedules and alignment are not clear. Deliverables are not apparent, it appears to be just seeking expertise participation and support to SC-159. SC-227 can respond regarding making time for SC-159 presentation and coordination at plenaries. The ISRA could take two or three update cycles. SC-159 has their next meeting in October which could provide a response in time for the SC-227 plenary in November. A goal is that a GNSS navigator and TSO-C115 equipment have the same performance and behavior operationally for PBN procedures. Mike will develop a response that reflects this and will coordinate with the committee before it is sent out. A final version will require approval by the committee.

### **Disposition Draft MASPS Comments**

Guidelines for the comment disposition were reviewed. The review will be performed:

1. Knowing we are just cleaning up the document to get it ready for FRAC, and what is agreed on here is not final.
2. Recognizing the historical foundation and context of the standard. Changes are according to the TORS, RNP concept, implementation lessons learned or where DO-283B warrants.
3. Using only the comments by the July 30th due date.
4. Starting with “High”, then “Medium”, then “Low”. The editorial comments have been screened and will be taken care of offline before FRAC or before publication for those that RTCA editorial staff will address.
5. With the proposed resolutions intended to set the starting point for any discussion.
6. Where any new or side issues are raised, these will be set aside and addressed at the end of the review, time allowing. If not, commenter(s) should note and submit for the FRAC.

See comment worksheet for comment related notes and disposition.  
The comment review was started.

#### **Tuesday – Thursday Disposition Draft MASPS Comments**

See the comment worksheet (SC227 MASPS Internal Review HML Comment Disposition 081921.xlsx) for comment related notes and disposition. The committee scanned through the editorial comments that will be dispositioned by the leadership group. Any items discussed are noted in the comment worksheet. Comment review was completed on Thursday August 19<sup>th</sup>.

The FRAC version of the MASPS will be issued to RTCA/EUROCAE by August 31<sup>st</sup>. RTCA/EUROCAE Secretariat intend to launch FRAC/OC on Friday, September 03. FRAC/OC will be launched on both platforms, but members of SC-227 and WG-85 are encouraged to use the RTCA platform as it will be easier to consolidate the comments. While it is acceptable that a redlined version of the draft document is made available to the Committee, the FRAC/OC version will be “clean”. FRAC/OC will run for 45 days, meaning that it will close on October 18 (it was noted that EUROCAE runs a process based system which will close OC automatically). FRAC comments will be due November 1, and will be dispositioned at the November meeting. The document will not be timely for the December PMC meeting and will be presented at the PMC March 17<sup>th</sup>, 2022.

**Post-meeting note:** RTCA/EUROCAE leadership for WG-85 and SC-227 reviewed the FRAC/OC schedule and determined that using a 45 day period, the dates discussed at the meeting will change slightly. The FRAC/OC will be launched by September 10<sup>th</sup> and will close on October 25<sup>th</sup>.

#### **Webex Meeting Adjourned**